



National Aeronautics and Space Administration
Goddard Space Flight Center
Wallops Flight Facility, Wallops Island, Virginia

Inside Wallops

Volume XX-02

Number 20

July 15, 2002

NASA Wallops Welcomes Summer Interns

A number of college students are spending their summer working at NASA Wallops Flight Facility. The students, from across the country, are participating in several NASA programs. In addition to the 39 college students, Wallops also is hosting nine high school students who are participating in the National Space Club Scholar and Student High School Apprentice Programs.

and McDaniel College. The Directors Discretionary Fund for innovative research (DDF) has provided funding for a student from the University of Maryland, College Park and two from Salisbury University.

Students from the University of California, Santa Cruz; University of North Dakota; Colorado State University; University of Southern



Photo by Betty Flowers

Wallops Senior Manager, Dr. John Campbell, (second from left) with some of the summer interns during an overview of Wallops activities.

The group includes six students from the University of Maryland, Eastern Shore (UMES) in the NASA-UMES Student Internship Program. One UMES student is participating in the Summer Institute in Engineering and Computer Applications program and another is part of the ACCESS program.

Wallops has five co-op students. They are from Old Dominion University (2), Virginia Tech, the University of Virginia, and the Suborbital Center of Excellence, New Mexico State University.

NASA's Office of Earth Science has funded three students. They are from Parkside High School, Virginia Tech

California; University of South Carolina, Salisbury University and the University of New Hampshire are being funded by the Goddard Coastal Research Graduate Fellowship program.

Northrup-Grumman (NSROC) has placed eight students for the summer. They are from the University of Virginia (3); Penn State, University Park Campus (2); University of Maryland, College Park (2); and Cornell University.

Computer Sciences Corporation has one student from Salisbury University, and we have three work-study students from the Eastern Shore Community College.

Special Act Award

On July 10, Center Director, Al Diaz presented Victor Eyo, NASA Carrier Systems Branch; Sandra Savage, NASA Procurement Office and Susan Semancik, NASA Real-Time Software Engineering Branch, with a "Special Act" award for their participation in the first NASA Goddard Space Flight Center, Career Development Forum that was held at Greenbelt on March 12, Headquarters on March 13 and at Wallops on March 28.

The Forum was created to promote awareness of career development opportunities at GSFC.

Joe Duke Retires



Congratulations to Joe Duke who retired effective July 3 with 42 years of government service. Duke began his career with NASA at Wallops on July 5, 1960, and was the Assistant Director for Projects Support at the time of his retirement.

Wallops Shorts

Sounding Rocket Launches

Two NASA Terrier-Orion sounding rockets was successfully launched from the Andoya Rocket Range, Norway, one each on July 1 and on July 5.

The missions were part of a series of 30 sounding rocket launches that took place during the MIDAS (Middle Atmosphere Investigations of Dynamics and Structure)/MaCWAVE (Mountain and Convective Waves Ascending Vertically) project.

Dr. Richard Goldberg, NASA GSFC, Laboratory for Extraterrestrial Physics, was the principal investigator for MaCWAVE.

Frank Schmidlin, NASA WFF, Observational Science Branch, was the principal investigator for the 24 meteorological rockets launched during the two-day mission.

Three German Improved Orions were launched for MIDAS as well as a radiosonde balloon release every second hour during the launch operations. Project scientists for MIDAS were from the United States, Norway, Germany, and Austria.

Two Terrier-Lynx sounding rockets were successfully launched from Kauai, Hawaii, the first on July 2 and another on July 3. The purpose of the mission was to provide targets for Navy tracking exercises supporting the Pacific Blitz test event. John Winstead, Naval Air Warfare Center, was the principal investigator.

Balloon Launches

A test flight to demonstrate proper deployment and selection of material for NASA's Ultra-Long Duration Balloon was successfully conducted on July 6 from Palestine, Texas. The 21.56 million cubic foot balloon was a super-pressure balloon.

Henry Cathey, Physical Science Laboratory-National Scientific Balloon Facility was the principal investigator. Total flight time was 3 hours 41 minutes.

A NASA scientific balloon was successfully launched July 9 from Palestine, Texas. The 3.46 million cubic foot balloon carried a payload for solar cell calibration.

Dr. Bruce Anspaugh, Jet Propulsion Laboratory, was the principal investigator. Total flight time was 6 hours 23 minutes.

The heat is on!

By Ted Wilz, Senior Meteorologist

Weather conditions provided some optimism for Delmarva farmers when we received over four inches of rainfall during the first half of June. Heavy rain and thunderstorms on June 14 provided over 2 ½ inches. This rain was greatly needed after a very dry May, when received a scant total of only 1.46 inches of rain, well below our 3-inch average.



Unfortunately, the second half of June returned to very arid conditions, as we received only .2 inch of rain after June 16. While our monthly total of 4.43 inches is over an inch above our monthly average of 3.12 inches, we are still in need of rain.

June continued the warm trend that we have been experiencing for the last several months. We had an average monthly temperature of 74 degrees. This is 3 degrees above the monthly average.

The warmest temperature of the month was a 93-degree reading that occurred on June 12. This established a new record high for the date, passing the previous record by one degree. A 93 degree reading was reached again on June 25. Temperatures reached 85 degrees or warmer on 11 days last month. The lowest temperature of the month was a 50-degree reading that occurred on the morning of June 9. No record low temperatures were set in June.

During August, average highs start in the mid-80's and are still in the low 80's as September approaches. Lows start out in the upper 60's and cool only slightly to the mid 60's by month's end.

August is one of our wettest months, second only to March. We average almost 4 inches of rainfall. Measurable rainfall usually falls on only eight days, however, with the greater amount attributable to the higher frequency of summer showers and thunderstorms, which can often drop significant rain in a short period of time.



Mid to late August is usually the time that the Bermuda High begins to lose its grip on the region and tropical activity begins to increase. NOAA's Climate Prediction Center and The National Hurricane Center have forecast a slightly above average hurricane season this year with 9-13 tropical storms/hurricanes likely.

2001 was a fairly active hurricane year, and we were fortunate that no major hurricanes made landfall. Hopefully, everyone is prepared for any tropical storm or hurricane activity that should come our way.

*Sympathy is extended to the family, friends and co-workers of
Lester Crockett
who died July 15. Crockett was a NASA radar/microwave technician for the Wallops Microwave Systems Branch.*

NASA's P-3 Returns

NASA's P-3 aircraft has returned to Wallops after conducting flights from Des Moines, Iowa, in support of the 2002 Soil Moisture Experiment.

Microwave measurements from the P-3 were made over mid-west ground truth stations and during Aqua/Advanced Microwave Scanning Radiometer (AMSR) satellite overpasses. The measurements supported the Hydrology and AMSR cal/val Programs.

The P-3 was instrumented with NOAA's Polar Scanning Radiometer and Goddard's Electronically Scanned, Thinned Array Radiometer.

NASA Day at Kings Dominion Saturday, July 27

Tickets: \$33 (ages 13 and up)
\$28 (ages 7 thru 12)
Free (ages 6 and under)

Lunch is included with ticket cost. Parking passes are \$6 each. Contact Karen Thornes on extension 2020 or 2010 for tickets and more information.

Ticket Specials at the Exchange

Military Appreciation Days - through September 2
Ticket specials for ages 3 and up.
Busch Gardens - \$28
Water Country - \$21
Under 3 admitted free.

Six Flags America
Buy one, get one free coupon for general admission at the gate
Good for up to six admissions -
Three paid--three free through Nov. 2, 2002.

Regular season tickets also are available at the Wallops Exchange Store, in Building E-2, Monday through Friday, 10 a.m. to 2 p.m.

For Sale

1995 Buick Park Avenue, 75,000 miles. Asking \$7,500.

1999 Ford Windstar mini-van with 42,000 miles. Asking \$14,000. Call 757 787-7290 for details.

Adult CPR and Basic First Aid Training

Adult CPR

August 7 (2 sessions)
8 a.m. to noon
12:30 to 4:30 p.m.

Basic First Aid

August 8 (2 sessions)
8 a.m. to noon
12:30 to 4:30 p.m.

The Adult CPR Course is designed to help participants learn how to respond to a breathing or cardiac emergency in an adult. Students will become familiar with signals of breathing emergencies, signals of cardiac emergencies and how to care for a person who is not breathing, who is choking, or who is in cardiac arrest. It also covers general emergency responder techniques and how best to help in an emergency situation.

The Basic First Aid Course is designed to help participants become familiar with how to recognize and care for victims of illness and sudden injuries. Students will learn how to care for muscle, bone and joint injuries, control bleeding and general care steps for burns. The course also includes some emergency response techniques.

These courses are offered at no cost to all NASA and contractor employees.

Anyone interested in attending should complete a training registration request form or contact Dwayne Rye by email at: darye@pop800.gsfc.nasa.gov or call x1884.

NASA Turns Satellite Over to NOAA

The nation's newest polar-orbiting environmental satellite, NOAA-17, was turned over to the National Oceanic and Atmospheric Administration from NASA's Goddard Space Flight Center on July 14.

NOAA-17, launched from Vandenberg Air Force Base, Calif., on June 24, is the third in a series of five polar-orbiting satellites with improved imaging and sounding capabilities that will operate over the next 10 years.

NOAA and NASA report that all post-launch spacecraft subsystem and instrument deployments were successful. All instruments have been turned on and detailed analysis of data from the entire spacecraft continues, with no major anomalies identified.

Inside Wallops is an official publication of Goddard Space Flight Center and is published by the Wallops Office of Public Affairs, Extension 1584, in the interest of Wallops employees. Recent and past issues of *Inside Wallops* also may be found on the NASA Wallops Flight Facility homepage: www.wff.nasa.gov

Editor

Betty Flowers